PORTABLE MINI COMPONENT SYSTEM

INSTRUCTION MANUAL

SANYO

DOLBY SYSTEM

AMSS

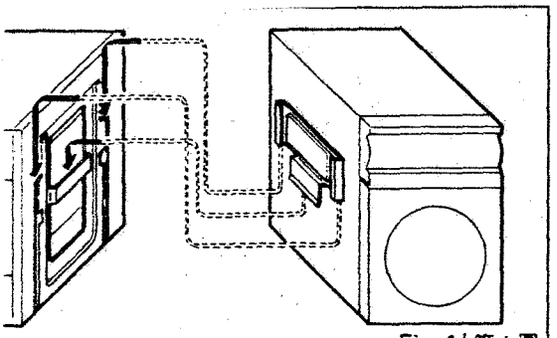

Fig. 1/ 第 1 圖

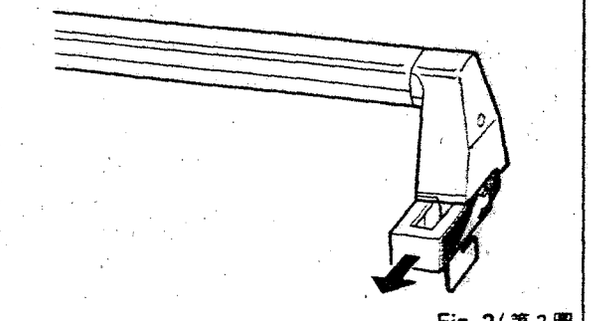

Fig. 2/ 第 2 圖

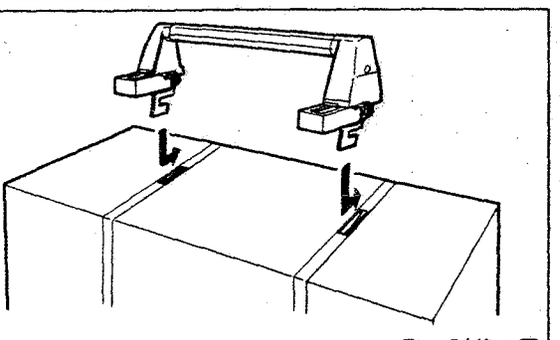

Fig. 3/ 第 3 圖

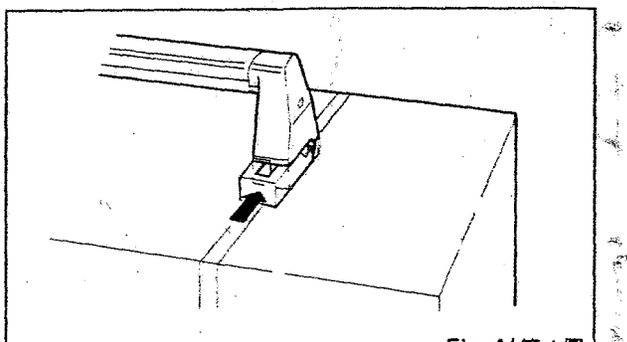

Fig. 4/ 第 4 圖

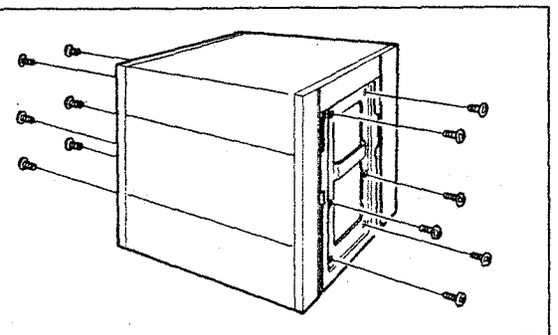

Fig. 5/ 第 5 圖

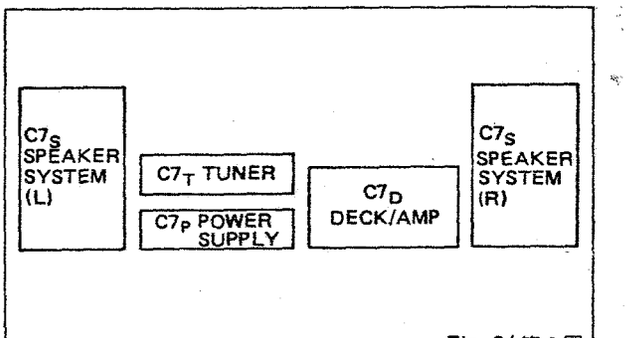

Fig. 6/ 第 6 圖

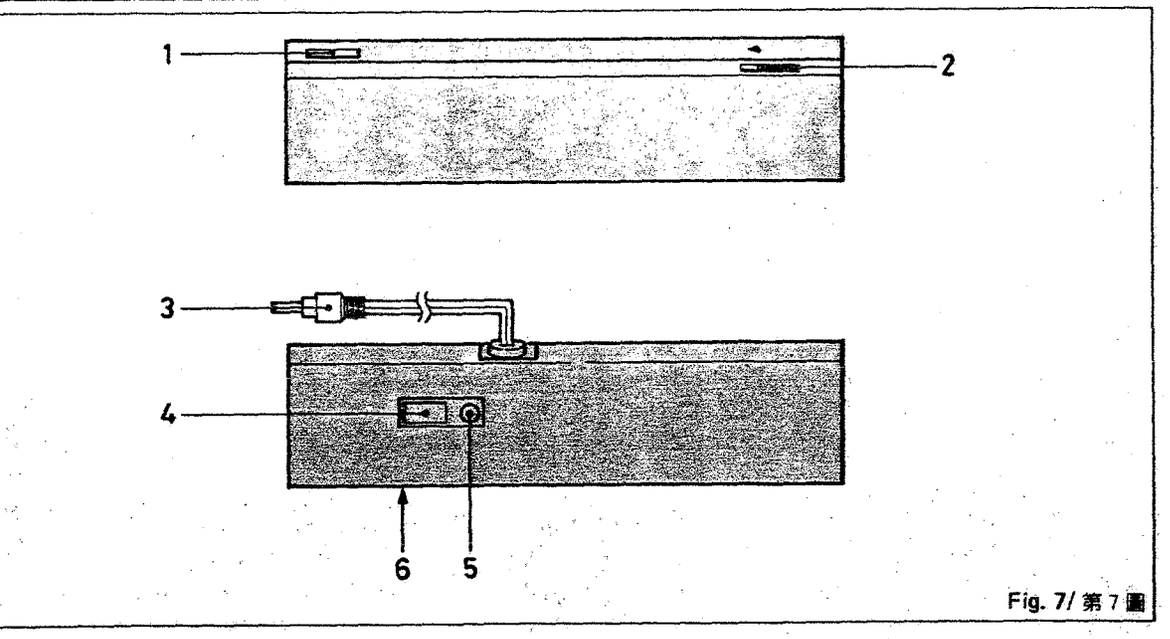

Fig. 7/ 第 7 圖

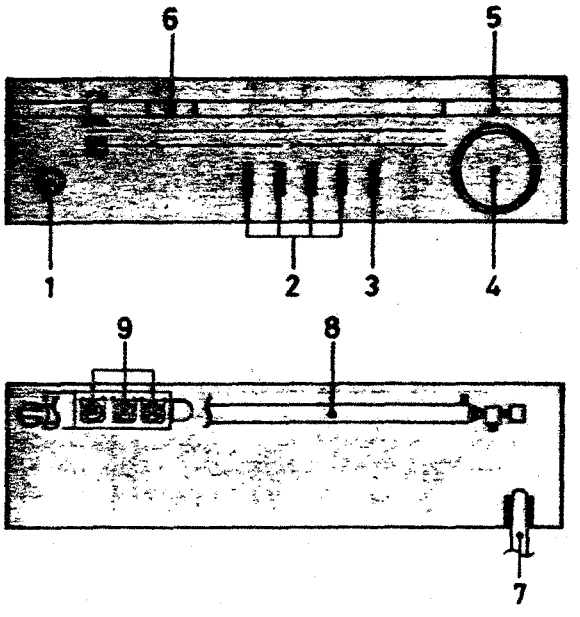

Fig. 8/第 8 圖

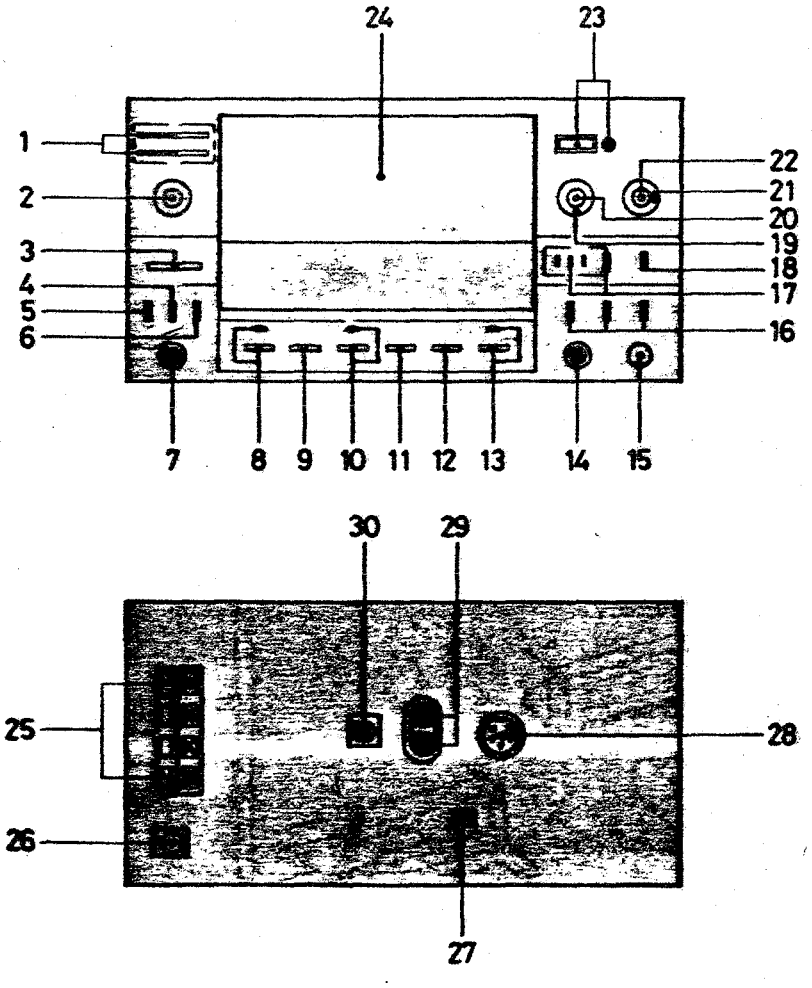

Fig. 9/第 9 圖

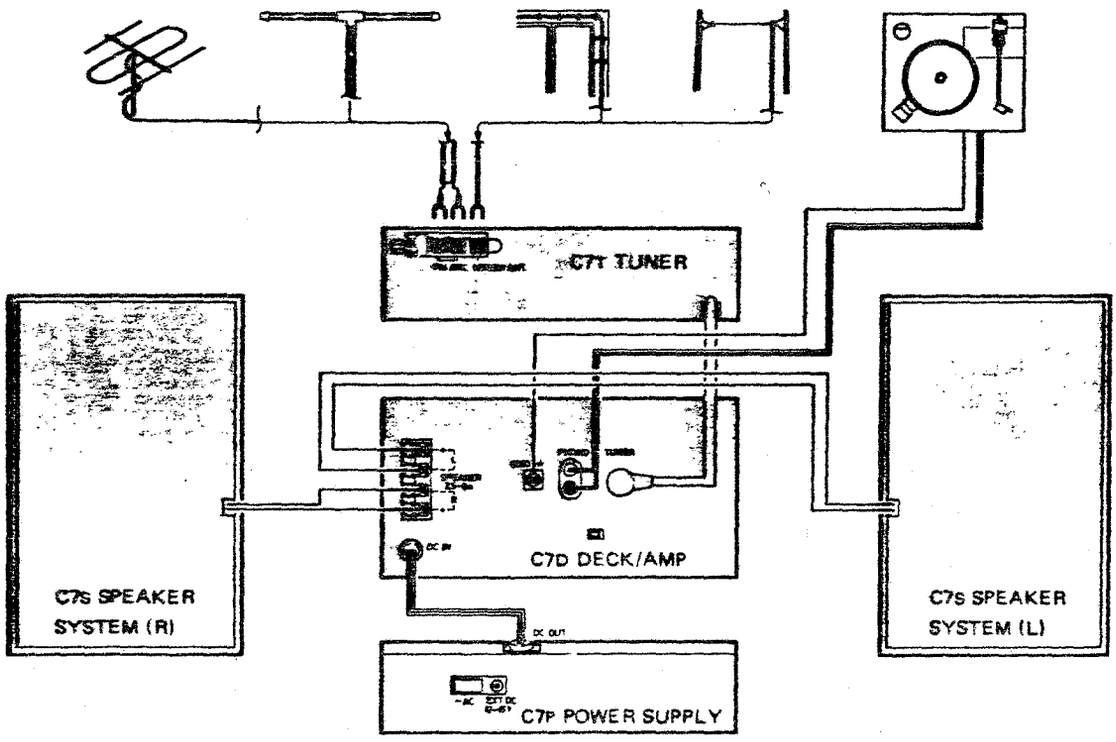

Fig. 10/第10圖

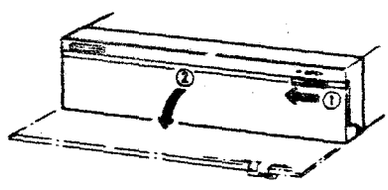

Fig. 11/第11圖

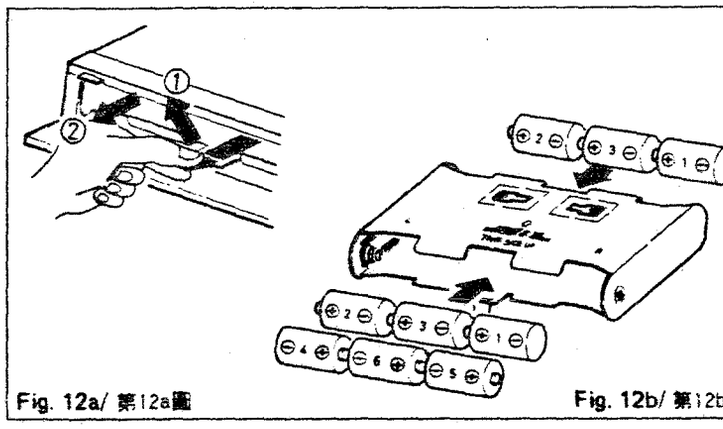

Fig. 12a/第12a圖

Fig. 12b/第12b圖

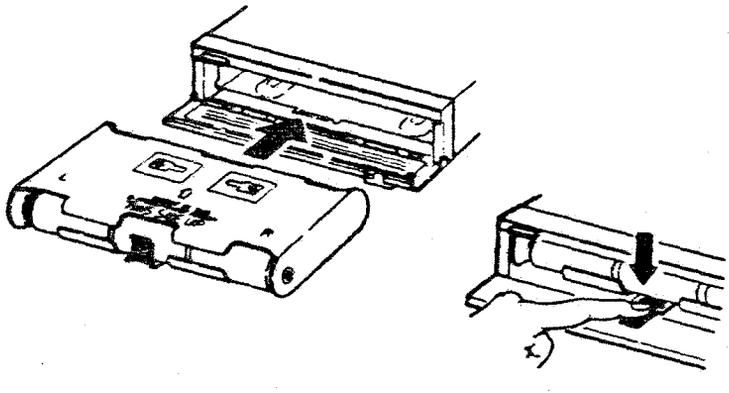

Fig. 13a/第13a圖

Fig. 13b/第13b圖

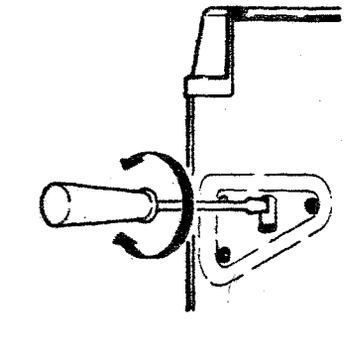

Fig. 14/第14圖

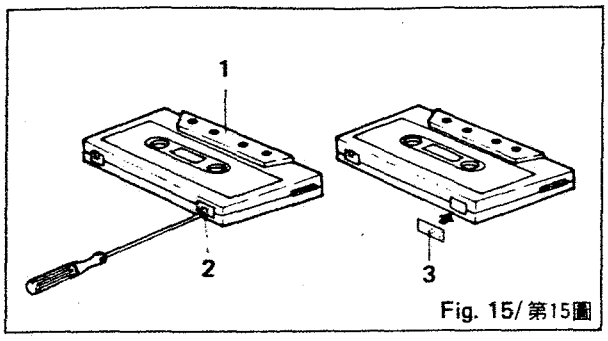

Fig. 15/第15圖

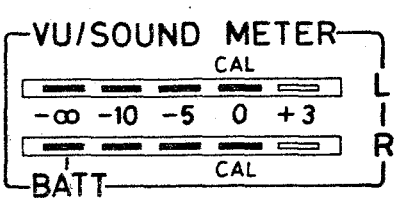

Fig. 16/第16圖

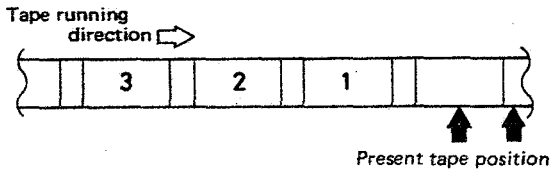

Fig. 17/第17圖

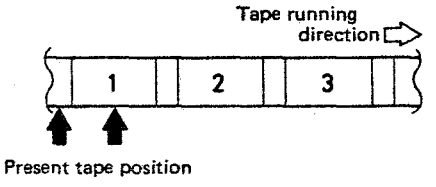

Fig. 18/第18圖

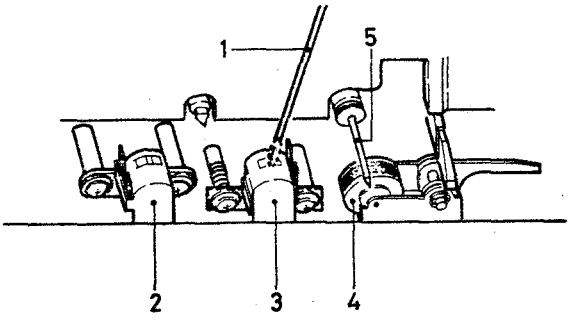

Fig. 19/第19圖

ENGLISH

This portable mini component system C7, developed and engineered by SANYO, will be a source of enjoyment for many years. To understand its functions, to keep it in good order and to assure its trouble-free performance, read the instruction manual carefully. Consult your dealer, if necessary.

The system consists of the following components:

C7T	Tuner unit	C7S	Speaker system
C7D	Cassette deck/Amplifier unit		
C7P	Power supply unit		Carrying racks and accessories.

INSTALLATION

Carrying rack installation

For carrying rack installation, the C7T tuner, C7D cassette deck/amplifier and C7P power supply units are assembled in the factory.

1. Install the left and right C7S speaker systems as shown in Fig. 1.
2. Attach the handle following the instructions described below.
   a. Slide out both handle locks in the direction of the arrow (Fig. 2).
   b. Insert the handle in the slots on the racks as shown in Fig. 3.
   c. Slide back the handle locks in place (Fig. 4).
3. After speakers connections have been made, install the back cover.

Indoor installation

1. Remove the 12 mounting screws from both carrying racks to separate the components (Fig. 5).
2. Arrange the components as shown in Fig. 6.

CONTROLS

C7P POWER SUPPLY UNIT (Fig. 7)

1. Power switch (POWER)
2. Battery compartment lid opening knob (OPEN)
3. DC output lead (DC OUT)
4. AC input socket (AC)
5. External DC input socket (EXT DC 12 – 15 V)
6. Voltage selector (VOLTAGE SELECTOR)
   – bottom of the unit –

C7T TUNER UNIT (Fig. 8)

1. Fine tuning control (FINE TUNING)
2. Band select switches (MW/SW1/SW2/FM)
3. Mode switch (MODE)
4. Tuning control
5. FM stereo indicator (STEREO)
6. LED tuning pointer
7. Output lead
8. Telescopic aerial
9. External aerial terminals

C7D CASSETTE DECK/AMPLIFIER UNIT (Fig. 9)

1. VU/Sound level meters (with battery check) (VU/SOUND METER)
2. Input level controls (INPUT LEVEL)
3. Eject button (EJECT)
4. Dolby NR switch (DOLBY NR)
5. Record muting button (REC MUTE)
6. Tape select switch (METAL/NORMAL)
7. Headphones socket (PHONES)
8. Record button and its indicator (RECORD)
9. Rewind/Review/AMSS button (REW/REVIEW/AMSS)
10. Play button and its indicator (PLAY)

11. Fast forward/Cue/AMSS button (F FWD/ CUE/AMSS)
12. Stop button (STOP)
13. Pause button and its indicator (PAUSE)
14. Microphone input socket (MIC)
15. Microphone mixing volume control (MIC MIX VOL)
16. Function selectors (TAPE/TUNER/PHONO)
17. AMSS button and its indicators (AMSS)
18. Loudness control switch (LOUDNESS)
19. Bass control (BASS)
20. Treble control (TRE)
21. Balance control (BAL)
22. Volume control (VOL)
23. Tape counter and reset button (COUNTER)
24. Cassette compartment lid
25. Speaker terminals (SPEAKER)
26. DC input socket (DC IN)
27. Beat cancel switch (BEAT CANCEL)
28. Tuner input socket (TUNER)
29. Phono input sockets (PHONO)
30. Earth terminal (GND)

CONNECTIONS AND POWER SUPPLY (Fig. 10)

Connect the components as shown in Fig. 10.

POWER SUPPLY UNIT

Inserting the batteries

1. Open the battery compartment lid by sliding the OPEN knob in the direction of the arrows (Fig. 11).
2. Take out the battery case by pulling up the tape as shown in Fig. 12a and install 9 "D" size (UM–1) flashlight batteries exactly as shown in Fig. 12b.
3. Insert the battery case to the battery compartment exactly as shown in Fig. 13a and fix it by pressing the protrusion as shown in Fig. 13b.
4. Close the battery compartment lid.

External DC input socket (EXT DC 12 – 15 V)

NOTE:

The centre pin of this socket is negative.

1. Connect the plug of a car adaptor (SANYO model CA-12 optional extra) to the socket.
2. The internal battery circuit is automatically disconnected.

AC input socket (AC)

NOTE:

* Do not connect the mains lead to an AC outlet until after all connections have been made.
* Before connecting the mains lead, set the POWER switch to the "off" position.

1. Before operating the unit for the first time in a new area, it is essential to assure that the setting of the VOLTAGE SELECTOR (located on the bottom of the unit) corresponds to the local voltage. To adjust the voltage, reset the VOLTAGE SELECTOR to correspond with the local voltage (Fig. 14).
2. Connect one end of the mains lead to the "AC" input socket and the other end to an AC outlet.
3. When the mains lead is connected to the "AC" input socket, the batteries are automatically disconnected.

DC output lead (DC OUT)

Connect this lead to the "DC IN" socket of the cassette deck/amplifier unit.

CAUTION

THIS DC OUTPUT LEAD IS DESIGNED ONLY FOR USE WITH MODEL C7D CASSETTE DECK/ AMPLIFIER UNIT. DO NOT USE WITH OTHER APPLIANCES.

TUNER UNIT

Telescopic aerial and ferrite bar aerial

In local areas, the telescopic aerial is sufficient to receive local FM or SW2 broadcasts. Adjust its length, angle and direction for best reception.

The built-in ferrite bar aerial is sufficient to receive local MW or SW1 broadcasts. The aerial is somewhat directional, and so reception from distant stations may sometimes be improved by rotating the unit.

FM aerial terminals (FM ANT.)

If reception with the telescopic aerial is unsatisfactory, connect a T-shaped indoor aerial (not supplied) to the "FM ANT." terminals. If further improved reception is required, an outdoor aerial should be employed. Consult your dealer.

MW/SW aerial terminal (MW/SW ANT.)

If reception with the ferrite bar aerial is unsatisfactory, connect an indoor aerial to the "MW/SW ANT." terminal. If further improved reception is required, an outdoor aerial should be employed. Consult your dealer.

NOTE:

For better MW/SW radio reception, the speaker, mains and any other leads should not come close to the external aerial terminals.

Output lead

Connect this lead to the "TUNER" input socket of the cassette deck/amplifier unit.

CASSETTE DECK/AMPLIFIER UNIT

Speaker terminals (SPEAKER)

The speaker terminals will accept speakers of 2.5 to 8 ohms impedance. The speaker leads should be connected to the speaker terminals with the proper polarity. The red terminals are (+) positive and black terminals are (—) negative.

NOTE:

The leads with stripe of the C7s speaker system are (+) positive and the others are (—) negative. With incorrect polarity connections, proper stereo reproduction cannot be obtained.

1. Twist the strands of the speaker lead for easy connection.
2. While pressing the button of the terminal, insert the lead into the opening and then release.

Phono input sockets and earth terminal (PHONO and GND)

Connection for a turntable having magnetic cartridge. If the turntable has an earth lead with a spade or hook lug, connect its free end to the "GND" terminal. This may be necessary for hum-free record play.

NOTE:

Moving magnet (MM), moving iron (MI) and induced magnet (IM) type cartridges should be employed. Other type cartridges such as moving coil (MC) types are not recommended.

Tuner input socket (TUNER)

Connect the output lead of the tuner unit to this socket.

DC input socket (DC IN)

Connect the DC output lead of the power supply unit to this socket.

CAUTION:

THIS SOCKET IS DESIGNED ONLY FOR USE WITH MODEL C7P POWER SUPPLY UNIT.

Microphone input socket (MIC)

Connection for a microphone with a 6 mm (1/4") plug (400 ohms to 10 k

Phones socket (PHONES)

Provided for private listening with stereo headphones (SANYO model E 500 or E 800, optional). The PHONES socket will accept a 6 mm (1/4") plug. Before connecting the headphones, the VOLume control should be set to the minimum position to avoid damage to your ears and headphones. Then adjust the sound level with the VOLume control.

NOTE:

The speakers are automatically disconnected when the headphones are connected to the "PHONES" socket.

Battery checking

1. Disconnect the mains lead and the plug of a car adaptor from the power supply unit.
2. Set the POWER switch to the "on" position.
3. Set the VOLume control to the minimum position and press the PLAY button.
4. The left-hand ends of VU/SOUND meters (with battery check) show battery condition.

   bright . . . . . good condition

   don't light . . . . . must be replaced

   * When the batteries are exhausted, the EJECT button may not operate correctly. If this occurs, change the unit to AC power operation mode and press the EJECT button again.

TUNER/AMPLIFIER SECTION

* Set the MIC MIX VOLume control to the minimum position unless you wish to play the mixing microphone.

TUNER OPERATION

FM listening

1. Set the POWER switch to the "on" position. The LED tuning pointer and the left-hand ends of VU/SOUND meters will light up.
2. Press the "TUNER" function selector.
3. Press the "FM" band select switch.
4. Set the MODE switch to the "stereo" (released) position.
5. Tune in a desired station by turning the tuning control. When a stereo broadcast is received, the STEREO indicator will light up. When a mono broadcast is received, the unit will operate monophonically. When a weak-signal station is received in stereo, press the MODE switch to the "mono" position to improve reception.
6. Adjust the VOLume, BASS, TREble and BALance controls to the desired sound level and tone quality.

MW, SW1 or SW2 listening

1. Press the "TUNER" function selector.
2. Press the "MW", "SW1" or "SW2" band select switch.
3. Tune in a desired station by turning the tuning control.
   For SW reception, retune in the station accurately with the FINE TUNING control.
4. Adjust the VOLume, BASS, TREble and BALance controls to the desired sound level and tone quality.

Mixing play with a radio programme and a microphone

Tune in a desired radio programme as described above and adjust the microphone volume with the MIC MIX VOLume control.

NOTE:

To prevent feedback, the microphone volume should be reduced as much as possible.

TURNTABLE OPERATION

1. Set the POWER switch to the "on" position.
2. Press the "PHONO" function selector.
3. Operate your turntable as instructed.
4. Adjust the VOLume, BASS, TREble and BALance controls to the desired sound level and tone quality.

Mixing play with a turntable and a microphone
Play a record as described above and adjust the microphone volume with the MIC MIX VOLume control.

Loudness control switch (LOUDNESS)
This control compensates for the loss of high and low frequencies when the VOLume control is adjusted to a low level. When switched on, it will emphasize lower and higher frequencies.

VU/Sound level meters (VU/SOUND METER)
Indicate the source level when receiving a station or playing a record.

CASSETTE DECK SECTION

COMPACT CASSETTE

Inserting and removing the cassette
Open the cassette compartment lid by pressing the EJECT button. Insert the cassette placing the full reel on the left (visible through the window) and the exposed section of tape at bottom. Close the cassette compartment lid. Now the unit is ready for operation. To use the second track, press the STOP button and then press the EJECT button and remove the cassette. Turn the cassette around and reinsert it as previously described.

Counter
When recording at the beginning of a tape, set the counter to "000" by pressing the reset button. As you record various selections, make a note of the counter number at the beginning of each selection. To play back a particular selection, wind the tape until the counter registers the previously noted number for that selection.

Prevention of accidental erasing (Fig. 15)
Whenever recording, the sound previously recorded is erased automatically. To protect valuable recordings from accidental erasing, the tape deck and the cassette are equipped with standard safety features. To keep the recorded material, break out the tabs on the back of the cassette with a knife or screwdriver. To protect the side A (1) from accidental erasure, break out the right side tab (2). To record on a cassette whose tabs have been broken, simply attach adhesive tape (3) over the tab opening. The unit will not operate in recording mode when a cassette tab has been removed.

The Dolby NR System ..... explained

* Silence is an important part of music: the notes are only part of the music a composer writes. The silence between the notes is just as important. Real high fidelity means reproducing the silence as accurately as the sound.
* Recorded music has always included recorded noise. Since the earliest days of music recording, listeners have had to endure background noise, including the hiss produced by recording tape. Audio engineers have learnt that no technique can ever remove all the noise of a sound reproducing system. However, they also have learnt that noise is only detected by the ear and brain of a listener under certain conditions. The Dolby NR System works in a way that is based upon recent research into both electronics and hearing.

* A circuit that listens to music: The Dolby NR System is based on a patented circuit which is "programmed" with information about the way noise is heard by a human listener when music is played at the same time. By playing the music through the Dolby NR System before it is recorded, and again when the recording is heard by the listener, the noise introduced by the recording process is reduced considerably.
* "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. This Noise Reduction System is manufactured under licence from Dolby Laboratories Licensing Corporation.

About metal tape

* Whereas normal, chrome, ferrochrome and other sound rcording tapes are surface-coated with magnetic powder of iron oxide, metal tape has the surface covered with an unoxidized alloy whose main ingredient is pure iron. Since base film is almost the same in all kinds of tape, the metal tape does not differ significantly from the others in regard to its physical and mechanical properties. It, however, excels in terms of electrical characteristics because of its special surface coating. For this reason, it can provide tape deck enthusiasts with greater satisfaction, by enabling them to achieve superior high fidelity in the recording and playback of music.
* Metal tape has the following performance features when used on the tape deck.
  1. Excellent frequency response at high input levels both in the recording and playback modes.
  2. High maximum output levels over the entire frequency range.
  3. A wide dynamic range at high frequency levels.
  4. A superior S/N ratio at high frequency levels.
  5. An excellent distortion factor at high input levels.
* When recording sound on metal tape, it is recommended that you read and follow the instructions contained in the manual on metal tape.

PREPARATION FOR CASSETTE DECK OPERATION

Soft touch control

Just a soft, fingertip touch of the power-assisted controls activates the transport function of your choice. Logic inter-lock lets you go from fast-wind modes to play without stopping in between.

VU/Sound level meters (VU/SOUND METER)

Indicate the recording level during recording or the recorded level during playback.

Dolby NR switch (DOLBY NR)

Activates the Dolby noise reduction circuit during recording and playback. Optimum music recording is achieved by setting the switch to "on".

Tape select switch

Selects proper tape position for the type of tape being used. As switch affects circuitry in both recording and playback, it must be set to proper tape type during both operation modes.

METAL . . . . . Metal tape
NORMAL . . . . . Normal (Fe_2O_3) tape

* Chiromium dioxide (CrO_2) tape can be played back normally with the "METAL" position, however recording is not recommended with this unit.

Record muting button (REC MUTE)

While a music programme is being recorded, press this button if you wish to leave a blank tape section or omit a section. The blank tape section can be made as long as the REC MUTE button is pressed. Release it to re-start recording on the tape.

NOTE:

To make a blank tape section which is to be used for the AMSS operation, the REC MUTE button should be pressed for more than 4 seconds.

Beat cancel switch (BEAT CANCEL)

When recording a radio programme on the tape, an irritating beat sound may sometimes be heard. In such cases, simply set this switch to the other position.

Automatic stop
This unit employs full release automatic stop at the end of the tape.

CASSETTE DECK OPERATION

Press the STOP button before turning the power off when the unit is in the recording or playback mode otherwise, the pinch roller will be damaged and cause inconsistent tape speed.

Recording

a) Recording from a microphone

* Make sure that the VOLume control is set to the minimum position to prevent feedback.
* Set the MIC MIX VOLume control to the maximum position.

1. Set the POWER switch to the "on" position.
2. Press the "TAPE" function selector.
3. Press the EJECT button and insert a cassette.
4. Set the tape select switch for the type of tape being used.
5. Set the DOLBY NR switch to "on" or "off" as desired.
6. Press the PAUSE button. The pause indicator will light up.
7. Press the RECORD button. The record and play indicators will light up.
8. Reset the counter to "000".
9. Adjust the left and right channel recording levels with the INPUT LEVEL controls so that the VU/SOUND meters illuminate within "0 dB" (Fig. 16).
10. Re-press the PAUSE button to start recording. The pause indicator will go off.
11. Since you can monitor through the speakers regardless of the recording level, adjust the VOLume, BASS, TREble and BALance controls to the desired sound level and tone quality.
12. Press the STOP button to stop recording at any time.
13. When the end of the tape has been reached, the automatic stop will be activated.

NOTE:

* To prevent feedback, the monitor sound should be reduced as much as possible.
* If you require to monitor with headphones, connect them to the PHONES socket.
* This unit cannot be possible stereo live recording.

b) Recording from the tuner or a turntable

* Make sure that the MIC MIX VOLume control is set to the minimum position.

Tune in a desired radio programme as described in "TUNER OPERATION" or play a record as described in "TURNTABLE OPERATION" under "TUNER/AMPLIFIER SECTION" and follow steps "3" to "13" of "Recording from a microphone" section.

c) Mixing recording with a radio programme and a microphone or a turntable and a microphone

* Make sure that the MIC MIX VOLume control is set to the minimum position.

1. Tune in a desired radio programme as described in "TUNER OPERATION" or play a record as described in "TURNTABLE OPERATION" under "TUNER/AMPLIFIER SECTION".
2. Follow steps "3" to "9" of "Recording from a microphone" section.
3. Adjust the microphone recording level with the MIC MIX VOLume control so that the VU/SOUND meters illuminate with in "0 dB".
4. Follow steps "10" to "13" of "Recording from a microphone" section.

Playback

* Make sure that the MIC MIX VOLume control is set to the minimum position.

1. Set the POWER switch to the "on" position.
2. Press the "TAPE" function selector.
3. Press the EJECT button and insert the recorded cassette.
4. Set the tape select switch for the type of tape being used.
5. Set the DOLBY NR switch to "on" or "off", according to whether the tape has been recorded with the Dolby NR System or not.
6. Press the PLAY button. The play indicator will light up.
7. Adjust the VOLume, BASS, TREble and BALance controls to the desired sound level and tone quality.

8. Press the STOP button to stop playback at any time.

Mixing playback with the recorded tape and a microphone
Playback the recorded tape as described above and adjust the microphone volume with the MIC MIX VOLume control.

AC timer operation
* Connect an AC timer (not supplied) to an AC outlet and connect the AC mains lead of the unit to the AC timer.

1. * For recording: Tune in a desired radio programme as described in "TUNER OPERATION" and follow steps "3" to "9" of "Recording from a microphone" section.
   Press the STOP button and re-press the PAUSE button for pause release.
   * For playback: Follow steps "1" to "7" of "Playback" section and wind the tape to the beginning the portion to be played.
2. Pre-set the time on the AC timer.
3. Press the RECORD button (for recording) or press the PLAY button (for playback).
4. When the pre-set time is reached, the unit will automatically start recording or playback.

Pause
Press the PAUSE button to momentarily suspend tape travel during recording or playback. The pause indicator will light up. Re-press the PAUSE button for pause release and recording (or playback) re-start. The pause indicator will go off. Pause control does not function during fast forward or rewind.

Fast forward and rewind
For fast winding or rewinding the tape, press the F FWD/CUE/AMSS or REW/REVIEW/AMSS button. Press the STOP button when the desired location has been reached. When the end of the tape has been reached the automatic stop will be activated.

Review mode
To repeat a passage that has just been played, press the REW/REVIEW/AMSS button and hold it. The tape will be rewound at high speed. The recorded sound will be heard as an aid to locating the desired section of the tape. Removing pressure on the button will allow the unit to return to the play mode.

Cue mode
To rapidly locate a desired section during playback, press the F FWD/CUE/AMSS button and hold it. The tape will run forward at high speed. The recorded sound will be heard as an aid to locating the desired section of the tape. When pressure on the button is removed the unit will return to the normal play operation.

Erasing
To erase the recorded tape without making a new recording, set the INPUT LEVEL controls to the minimum position and let the unit operate in the recording mode.

AMSS (Automatic Music Select System) OPERATION

This system lets the unit play selected passages of music automatically. This is done by detecting the blank tape section preceding each selection of recorded music. This system can programme any one music selection of up to three selections in number in both forward and backward directions.

AMSS operation
1. Press the EJECT button and insert a cassette.
2. Press the "TAPE" function selector and press the PLAY button.
3. Press the AMSS button. Then the "1" of AMSS indicator will light.
4. Programme a selection you wish to playback by pressing the AMSS button one by one. The AMSS indicator's lighting will move as "1", "2", "3", "1", "2" ..... .
   To count the selection, refer to "To use the AMSS button and AMSS indicators" section.

5. Press the F FWD/CUE/AMSS (or REW/REVIEW/AMSS) button to locate the selection in forward (or backward) direction. The tape will run forward (or backward) at high speed. The AMSS indicator's lighting will move in the direction of smaller numbers step by step whenever the blank tape section between selections is counted.
6. At the beginning of the desired music selection, the unit will change to playback mode instantly. The AMSS indicator will go off.

NOTE:

* If only the POWER switch is set to "on", the AMSS programme can be made by using the AMSS button.
* To cancel the AMSS operation, press the STOP button.
* To stand by, after locating the music selection, press the PAUSE button before proceeding the item "5" described above. Re-press the PAUSE button to start playback.

To use the AMSS button and AMSS indicators

The AMSS functions by detecting the blank tape sections between selections. Therefore count the selections on the cassette as follows.

In the forward direction (Fig. 17)

Always count the selection immediately after the one you are currently listening to as No. 1. Also at the very start of a cassette (before you have heard any music), the second selection on the cassette is No. 1. If you wish to hear the first selection, start playing the cassette and wait until the music starts.

In the backward direction (Fig. 18)

Always count the selection you are currently listening to as No. 1. Also at the very start of a cassette (before you have heard any music), the selection that has just been finished to playback on the cassette is No. 1.

e.g.

a) To playback No. 3 selection forward going from a blank tape section

1. Press the AMSS button 3 times. The "3" of AMSS indicator will light.
2. Press the F FWD/CUE/AMSS button.
3. At the beginning of No. 3 selection, the unit will change to playback mode.

b) To playback No. 2 selection backward going from now being played

1. Press the AMSS button twice. The "2" of AMSS indicator will light.
2. Press the REW/REVIEW/AMSS button.
3. At the beginning of No. 2 selection backward, the unit will change to playback mode.

* This system enables you to select and playback automatically further one than three selections in both forward and backward directions.

  e.g. **To select and playback the No. 5 selection**

  1. Press the AMSS button 3 times. The "3" of AMSS indicator will light.
  2. Activate the AMSS function.
  3. When the AMSS indicator's lighting moved to "1", press the AMSS button twice.

NOTE:

The AMSS functions by detecting the blank tape section between selections (4 seconds minimum). The system will work correctly with virtually any commercially pre-recorded music cassette. Some tapes you record yourself may cause incorrect operation, for example:

a) Voice tapes recorded with a pause in the conversation.
b) Tapes with less than 4 seconds of silence between selections (see use of "Record muting button" section).
c) Tapes recorded at a very low level.
d) Tapes with noise recorded on the blank spaces between selections (as from a very scratchy record, wind noise from a microphone, etc.).
e) Placing the unit on a television set may make the AMSS function incorrectly because the AMSS is affected by signals radiated from a television set.

MAINTENANCE

Cleaning the heads (Fig. 19)

To ensure the continued high performance of your unit, periodically clean the heads and pinch roller or whenever dust or a reddish-brown oxide has accumulated. Failure to clean these parts can result in inferior sound quality, distortion of recorded sound, deterioration of reproduction of high frequencies, and inconsistent tape speed.

1. Open the cassette compartment lid by pressing the EJECT button.
2. Moisten a cotton bud (1) with head cleaner or methylated spirit and apply to the faces of both heads (2 and 3), rubbing gently until all traces of dirt or oxide are removed. Also clean the surfaces of the pinch roller (4) and the capstan (5).
3. Dry, clean and polish the faces of the heads with a piece of cloth.

Power switch

After using the system, turn off the power by releasing the POWER switch.

Installing the system

Never place the system near a source of extreme heat such as a radiator or direct sunlight or in a moist environment. Following this advice will safeguard the system from damage. Placing the system in a well ventilated area is strongly recommended.

Cleaning the system

To retain the beauty of the control panel and cabinet, simply wipe with a soft, freshly laundered cloth moistened with plain lukewarm water.

If trouble occurs .....

To avoid electric shock hazard or any accidents to yourself or the system, have the system bench tested by a SANYO dealer. Do not remove the unit from its cabinet to attempt a repair yourself.

SPECIFICATIONS

C7T TUNER SECTION

FM section

Frequency range	87.6 – 108 MHz
Usable sensitivity	2.0 μV (mono)
Signal to noise ratio (1 mV ANT.)	80 dB (mono)
Harmonic distortion (1 kHz)	0.5% (mono)
Aerial input	300 ohms balanced

MW/SW1/SW2 section

Frequency range	MW: 530 – 1605 kHz
	SW1: 2.3 – 7.3 MHz
	SW2: 7.3 – 22 MHz
Sensitivity (ferrite aerial)	300 μV/m (MW), 250 μV/m (SW1), 10 μV (SW2)
Signal to noise ratio (10 mV/m)	50 dB (MW)
Aerial	Ferrite bar aerial and external aerial terminal

General

Dimensions (Approx.)	215 (W) x 205 (D) x 58 (H) mm
	(8-1/2" x 8-1/16" x 2-5/16")
Weight (Approx)	1.1 kg (2 lbs. 7 ozs.)

C7D CASSETTE DECK/AMPLIFIER SECTION

Cassette deck section

Tape	Metal, normal tape
Recording system	AC bias, 4-track stereo
Erasing system	AC erasing, 2-track
Tape speed	4.75 cm/sec. (1-7/8 i.p.s.)
Rewind and fast forward time	Approx. 110 sec. (C–60)
Wow and flutter	0.05% (WRMS)
Frequency response	30 – 17,000 Hz (metal)
	30 – 14,000 Hz (normal)
Signal to noise ratio (metal tape)	66 dB (Dolby NR on)
	56 dB (Dolby NR off)

Amplifier section

Output power	18 W x 2 maximum music power (at 2.5 ohms load)
Inputs	MIC: 1.5 mV/10 kohms
	PHONO: 3.5 mV/47 kohms
Outputs	SPEAKER: 2.5 – 8 ohms
	PHONES: 8 ohms to 10 kohms
Tone control response	
BASS	±8 dB (at 100 Hz)
TREBLE	±8 dB (at 10 kHz)
Loudness control response	
100 Hz/10 kHz	+8 dB/+4 dB
Signal to noise ratio	76 dB (PHONO)

General

Dimensions (Approx.)	215 (W) x 206 (D) x 120.5 (H) mm
	(8-1/2" x 8-1/8" x 4-3/4")
Weight (Approx.)	2.7 kg (5 lbs. 15 ozs.)

C7S SPEAKER SYSTEM

Type	2 way speaker system, bassreflex type:
	Tweeter 4 cm, Woofer 10 cm
Impedance	2.5 ohms
Input power	20 W (maximum)
Dimensions (Approx.)	140 (W) x 184 (D) x 231 (H) mm
	(5-1/2" x 7-1/4" x 9-1/8")
Weight (Approx.)	1.45 kg. (3 lbs. 3 ozs.) x 2

C7P POWER SUPPLY UNIT

Output	DC: 13.5 V, 1.7 A
Power requirements	AC: 120/220/240 V, 50/60 Hz
	DC: 12 – 15 V car battery adaptor
	DC: 13.5 V "D" (UM–1) x 9
Power consumption	35 VA
Dimensions (Approx.)	215 (W) x 225 (D) x 62.5 (H) mm
	(8-1/2" x 8-7/8" x 2-7/16")
Weight (Approx.)	3.3 kg. (7 lbs. 5 ozs.) including batteries

Total dimensions of the system C7	515 (W) x 232 (D) x 306.5 (H) mm
	(20-5/16" x 9-1/8" x 12-1/16")
Total weight of the system C7	11.2 kg. (24 lbs. 11 ozs.) including batteries

* Specifications subject to change without notice.